

Stearns School Road Bridge over I-94 and Pulaski Drive Bridge over US Rte. 41, deck repairs: Consultant Agreement.

Accounts Payable (1) cert.  
Transportation (2) cert.

STATE OF ILLINOIS )  
 )  
COUNTY OF LAKE )

COUNTY BOARD, LAKE COUNTY, ILLINOIS

REGULAR JUNE, A.D. 2008 SESSION

JUNE 10, A.D., 2008

**MADAM CHAIR AND MEMBERS OF THE COUNTY BOARD:**

A joint resolution authorizing the Chair of the County Board, the County Clerk and the County Engineer to execute an agreement between Lake County and McClure Engineering Associates, Inc. Waukegan, Illinois, for the provision Phase II engineering services (*Design Engineering*) for the repairs to the bridge decks to Stearns School Road (*County Highway 74*) over I-94 and also the bridge deck repairs to Pulaski Drive (*County Highway 78*) over US Rte. 41 at a maximum cost of services described of \$98,622.83. This resolution appropriates \$120,000 of County Bridge tax funds for these engineering services designated as section 08-00999-00-BR.

**WE RECOMMEND** adoption of this Resolution.

	Aye	Nay		Aye	Nay
<u>Debra O'Kelly</u> ✓			<u>[Signature]</u> X		
Chair			Chair		
<u>[Signature]</u> ✓			<u>Ann Flanagan D.</u> ✓		
Vice-Chair			Vice-Chair		
<u>Ann B. Marino</u> ✓			<u>[Signature]</u> ✓		
<u>[Signature]</u> ✓			<u>[Signature]</u> X		
<u>Shawn L. Bravenhorst</u> ✓			<u>Carol Calabrese</u> ✓		
			<u>Debra O'Kelly</u> ✓		
			<u>[Signature]</u> X		
Public Works and Transportation Committee			Financial and Administrative Committee		

## RESOLUTION

**WHEREAS,** Stearns School Road (*County Highway 74*) and Pulaski Drive (*County Highway 78*) are designated routes on the county highway system; and

**WHEREAS,** and the bridge decks of Stearns School Road over I-94 and Pulaski Drive over US Rte. 41 are in need of repair; and

**WHEREAS,** in order to remedy the condition of said bridge decks, a complete rehabilitation of both decks is required; and

**WHEREAS,** it is advisable that a consulting engineering firm be employed to provide Phase II engineering services (*Design Engineering*) for these rehabilitations; and

**WHEREAS,** Lake County, by and through its Division of Transportation has selected a professional engineering services firm in accordance with the Local Government Professional Services Selection Act (*50 ILCS 510/1 et. seq.*)

**WHEREAS,** McClure Engineering Associates, Inc. Waukegan, Illinois, are consulting engineers skilled in the provision of said Phase II engineering services (*Design Engineering*).

**NOW, THEREFORE BE IT RESOLVED** by this County Board of Lake County, Illinois, that McClure Engineering Associates, Inc. Waukegan, Illinois, be employed to provide said Phase II engineering services (*Design Engineering*) and that the Chair of the County Board, the County Clerk, and the County Engineer of Lake County are authorized, and they are directed to execute on behalf of Lake County an agreement for consultant engineering services between Lake County and McClure Engineering Associates, Inc. Waukegan, Illinois. The County Engineer shall transmit in writing the final agreement to be executed by the Chair of the Lake County Board, and the County Clerk.

**BE IT FURTHER RESOLVED** that there is hereby appropriated \$120,000 of County Bridge Tax funds for these construction engineering services designated as Section 08-00999-00-BR.

**BE IT FURTHER RESOLVED** that this agreement be administered in accordance with Chapter 605, Act 5, Section 5-205.2 of the Illinois Compiled Statutes without further Board action providing the final contract cost chargeable under the funds appropriated herein does not exceed the appropriation aforesaid.

Dated at Waukegan, Illinois  
this 10<sup>th</sup> day of June 2008



**McClure**  
Engineering Associates, Inc.

# TRANSMITTAL

**FROM:** ☐ Corporate Office • 4700 Kennedy Drive • East Moline, IL 61244 • (309) 792-9305 • (800) 346-8848 • Fax (309) 792-8974  
☐ Davenport Office • One River Place, Suite 106 • 1225 E. River Drive • Davenport, IA 52803 • (563) 322-2421 • Fax (563) 322-1331  
☐ Macomb Division • P.O. Box 593 • 714 E. Jackson • Macomb, IL 61455 • (309) 833-4594 • Fax (309) 837-4909  
☐ Milwaukee Division • 5417 North 118<sup>th</sup> Court • Milwaukee, WI 53225 • (414) 616-4880 • Fax (414) 616-4885  
☐ Ottawa Division • 1138 Columbus Street • Ottawa, IL 61350 • (815) 433-2080 • Fax (815) 433-5930  
☐ Quad City Division • 4700 Kennedy Drive • East Moline, IL 61244 • (309) 792-9350 • Fax (309) 792-8974  
☐ Rockford Division • 7282 Argus Drive • Rockford, IL 61107 • (815) 398-2332 • Fax (815) 398-2496  
☒ Waukegan Division • 2728 Grand Avenue • Waukegan, IL 60085 • (847) 336-7100 • Fax (847) 336-7155

**TO:** Lake County Division of Transportation

**DATE:** May 1, 2008

600 W. Winchester Road

**RE:** Stearns School Road/14<sup>th</sup> Street Bridges

Libertyville, IL 60048

Lake County, IL

Attn: Helena Sullivan

MEAI Project No. 02-28-08-(04)

**WE ARE SENDING YOU:** ☒ Attached ☐ Under separate

**Via:** E-Mail

COPIES	DATE	NO.	DESCRIPTION
1			Preliminary Engineering Services Agreement BLR 05510

**THESE ARE TRANSMITTED AS CHECKED:** (If enclosures are not as listed, please notify us at once.)

<input type="checkbox"/> As requested	<input type="checkbox"/> For signature	<input type="checkbox"/> Returned for corrections
<input checked="" type="checkbox"/> For review and comment	<input type="checkbox"/> Approved as submitted	<input type="checkbox"/> For your use
<input type="checkbox"/> For approval	<input type="checkbox"/> Approved as noted	<input type="checkbox"/> Prints returned after loan to us


**REMARKS**

**SIGNED:** Harlan M. Doland, P.E., P.L.S.  
Division Manager/Vice President

**COPY TO:** \_\_\_\_\_

**DRAFT**

SAMPLE

Municipality Lake County Div. of Transportation	LOCAL AGENCY	 <b>Illinois Department of Transportation</b>  <b>Preliminary Engineering Services Agreement For Motor Fuel Tax Funds</b>	CONSULTANT	Name McClure Engineering Assocs., Inc
Township				Address 2728 Grand Avenue
County Lake				City Waukegan
Section 07-00236-02-BR/08-00196-06-BR				State Illinois

THIS AGREEMENT is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Motor Fuel Tax Funds, allotted to the LA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

#### Section Description

Name Stearns School Road and 14<sup>th</sup> Street Bridge Deck Surface Repairs

Route \_\_\_\_\_ Length \_\_\_\_\_ Mi. \_\_\_\_\_ FT (Structure No. \_\_\_\_\_)

Termini Stearns School Road Bridge over I-94 and 14<sup>th</sup> Street Bridge over Rte. 41

#### Description:

Prepare bridge inspection reports to include recommended repairs and bridge deck overlay options. Prepare plans, specifications and estimate of cost.

#### Agreement Provisions

##### The Engineer Agrees,

1. To perform or be responsible for the performance of the following engineering services for the LA, in connection with the proposed improvements herein before described, and checked below:
  - a. ☒ Make such detailed surveys as are necessary for the preparation of detailed roadway plans
  - b. ☐ Make stream and flood plain hydraulic surveys and gather high water data, and flood histories for the preparation of detailed bridge plans.
  - c. ☐ Make or cause to be made such soil surveys or subsurface investigations including borings and soil profiles and analyses thereof as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations are to be made in accordance with the current requirements of the DEPARTMENT.
  - d. ☐ Make or cause to be made such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.
  - e. ☐ Prepare Army Corps of Engineers Permit, Department of Natural Resources-Office of Water Resources Permit, Bridge waterway sketch, and/or Channel Change sketch, Utility plan and locations, and Railroad Crossing work agreements.
  - f. ☒ Prepare Preliminary Bridge design and Hydraulic Report, (including economic analysis of bridge or culvert types) and high water effects on roadway overflows and bridge approaches.
  - g. ☒ Make complete general and detailed plans, special provisions, proposals and estimates of cost and furnish the LA with five (5) copies of the plans, special provisions, proposals and estimates. Additional copies of any or all documents, if required, shall be furnished to the LA by the ENGINEER at his actual cost for reproduction.
  - h. ☐ Furnish the LA with survey and drafts in quadruplicate of all necessary right-of-way dedications, construction easement and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.

Note: Four copies to be submitted to the Regional Engineer

- i. ☐ Assist the LA in the tabulation and interpretation of the contractors' proposals
  - j. ☒ Prepare the necessary environmental documents in accordance with the procedures adopted by the DEPARTMENT's Bureau of Local Roads & Streets.
  - k. ☒ Prepare the Project Development Report when required by the DEPARTMENT.
- (2) That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the AGREEMENT, will be in accordance with current standard specifications and policies of the DEPARTMENT. It is being understood that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the LA and the DEPARTMENT.
- (3) To attend conferences at any reasonable time when requested to do so by representatives of the LA or the Department.
- (4) In the event plans or surveys are found to be in error during construction of the SECTION and revisions of the plans or survey corrections are necessary, the ENGINEER agrees that he will perform such work without expense to the LA, even though final payment has been received by him. He shall give immediate attention to these changes so there will be a minimum delay to the Contractor.
- (5) That basic survey notes and sketches, charts, computations and other data prepared or obtained by the Engineer pursuant to this AGREEMENT will be made available, upon request, to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.
- (6) That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by him and will show his professional seal where such is required by law.

**The LA Agrees,**

1. To pay the ENGINEER as compensation for all services performed as stipulated in paragraphs 1a, 1g, 1i, 2, 3, 5 and 6 in accordance with one of the following methods indicated by a check mark:
- a. ☐ A sum of money equal to \_\_\_\_\_ percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.
  - b. ☐ A sum of money equal to the percent of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:

**Schedule for Percentages Based on Awarded Contract Cost**

Awarded Cost  
Under \$50,000

Percentage Fees

_____	(see note)
_____	%
_____	%
_____	%
_____	%
_____	%

Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.

2. To pay for services stipulated in paragraphs 1a, 1f, 1g, 1j, 1k of the ENGINEER AGREES at actual cost of performing such work plus 115 percent to cover profit, overhead and readiness to serve - "actual cost" being defined as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided under the paragraph 1b, 1c, 1d, 1e, 1f, 1h, 1j & 1k. If the ENGINEER sublets all or part of this work, the LA will pay the cost to the ENGINEER plus a five (5) percent service charge.

"Cost to Engineer" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm, including the Principal Engineer, perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed.

THE TOTAL NOT-TO-EXCEED CONTRACT AMOUNT SHALL BE \$98,622.83.

3. That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made as soon as practicable after the services have been performed in accordance with the following schedule:
  - a. Upon completion of detailed plans, special provisions, proposals and estimate of cost - being the work required by paragraphs 1a through 1g under THE ENGINEER AGREES - to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee due under this AGREEMENT based on the approved estimate of cost.
  - b. Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above.

By Mutual agreement, partial payments, not to exceed 90 percent of the amount earned, may be made from time to time as the work progresses. Monthly invoicing

4. That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraphs 1a, through 1h and prior to the completion of such services, the LA shall reimburse the ENGINEER for his actual costs plus 115 percent incurred up to the time he is notified in writing of such abandonment - "actual cost" being defined as in paragraph 2 of THE LA AGREES.
5. That, should the LA require changes in any of the detailed plans, specifications or estimates except for those required pursuant to paragraph 4 of THE ENGINEER AGREES, after they have been approved by the DEPARTMENT, the LA will pay the ENGINEER for such changes on the basis of actual cost plus 115 percent to cover profit, overhead and readiness to serve - "actual cost" being defined as in paragraph 2 of THE LA AGREES. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of his responsibility to prepare a complete and adequate set of plans and specifications.

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#### **It is Mutually Agreed,**

1. That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at his last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all surveys, permits, agreements, preliminary bridge design & hydraulic report, drawings, specifications, partial and completed estimates and data, if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with Section 4 of THE LA AGREES.
3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA and their approval by the DEPARTMENT, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under this AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA and the DEPARTMENT.
4. That the ENGINEER warrants that he/she has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract, and that he/she has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this contract. For Breach or violation of this warranty the LA shall have the right to annul this contract without liability.

SAMPLE

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in quadruplicate counterparts, each of which shall be considered as an original by their duly authorized officers.

Executed by the LA:

ATTEST: \_\_\_\_\_ of the  
(Municipality/Township/County)  
State of Illinois, acting by and through its  
By \_\_\_\_\_  
\_\_\_\_\_  
Clerk By \_\_\_\_\_  
(Seal) Title \_\_\_\_\_

Executed by the ENGINEER:

ATTEST: \_\_\_\_\_  
By Paul A. DeBruyne, P.E. By Harlan M. Doland, P.E., P.L.S.  
Title Executive Vice President/COO Title Division Manager/Vice President

<p>Approved</p> <p>_____ Date Department of Transportation</p> <p>_____ Regional Engineer</p>
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# **Exhibit A** **Preliminary Engineering**

Route:

Local Agency: LAKE

(Municipality/Township/County)

Section: 07-00236-02-BR

Project: Stearns School Road Bridge Over I-94

Job No.:

\*Firm's approved rates on file with  
IDOT's Bureau of Accounting and  
Auditing:

Payroll Burden & Fringe Rate

Overhead & Expense Rate

Complexity Factor

93.16%

95.98%

0.035

**Cost Estimate of Consultant's Services In Dollars**

Element of Work	Employee Classification	Man-Hours	Pay-Roll Rate	Pay-Roll Costs	Payroll Burden & Fringe Costs	Overhead and Expenses*	Profit	Total
DATA COLLECTION, COMPILATION, REVIEW AND EVALUATION	STRUCTURAL ENG.	20	45.00	\$900.00	\$838.44	\$863.82	\$390.34	\$2,992.60
	ASST. ST. ENG.	20	35.00	\$700.00	\$652.12	\$671.86	\$303.60	\$2,327.58
SURVEYS	CREW CHIEF	8	30.00	\$240.00	\$223.58	\$230.35	\$104.09	\$798.02
	RODMAN	8	25.00	\$200.00	\$186.32	\$191.96	\$86.74	\$665.02
	CAD TECH.	16	20.00	\$320.00	\$298.11	\$307.14	\$138.79	\$1,064.04
BRIDGE INSPECTION/	STRUCTURAL ENG.	80	45.00	\$3,600.00	\$3,353.76	\$3,455.28	\$1,561.36	\$11,970.40
BRIDGE REPAIR ANALYSIS	ASST. ST. ENG.	120	35.00	\$4,200.00	\$3,912.72	\$4,031.16	\$1,821.58	\$13,965.46
PROJECT REPORT	STRUCTURAL ENG.	8	45.00	\$360.00	\$335.38	\$345.53	\$156.14	\$1,197.05
	ASST. ST. ENG.	24	35.00	\$840.00	\$782.54	\$806.23	\$364.32	\$2,793.09
	CAD TECH.	24	20.00	\$480.00	\$447.17	\$460.70	\$208.18	\$1,596.05
PLANS, SPECS., ESTIMATE OF COST	ADMINISTRATIVE	8	25.00	\$200.00	\$186.32	\$191.96	\$86.74	\$665.02
	STRUCTURAL ENG.	24	45.00	\$1,080.00	\$1,006.13	\$1,036.58	\$468.41	\$3,591.12
	ASST. ST. ENG.	24	35.00	\$840.00	\$782.54	\$806.23	\$364.32	\$2,793.09
	CAD TECH.	80	20.00	\$1,600.00	\$1,490.56	\$1,535.68	\$693.94	\$5,320.18
REVIEW AGENCY COORDINATION	ADMINISTRATIVE	24	25.00	\$600.00	\$558.96	\$575.88	\$260.23	\$1,995.07
	STRUCTURAL ENG.	8	45.00	\$360.00	\$335.38	\$345.53	\$156.14	\$1,197.05
PROJECT MANAGEMENT AND ADMINISTRATION	ASST. ST. ENG.	16	35.00	\$560.00	\$521.70	\$537.49	\$242.88	\$1,862.07
	PRINCIPAL	8	45.00	\$360.00	\$335.38	\$345.53	\$156.14	\$1,197.05
Totals		520		\$17,440.00	\$16,247.10	\$16,738.91	\$7,563.94	\$57,989.96

BLR 4351 (Rev. 11/89)  
(Sheet 8 of 8)

LAKE COUNTY  
DIVISION OF TRANSPORTATION  
STEARNS SCHOOL ROAD BRIDGE OVER I-94  
MANHOURS PROJECTIONS

PRELIMINARY ENGINEERING

TASK 1

Data Collection, Compilation, Review and Evaluation

1. Data Collection	8
2. Compilation	8
3. Initial Field Inspection with Compilation Data	16
4. Meetings with Lake County Division of Transportation	<u>8</u>
Total Task 1	40

TASK 2

Surveys

1. Topographic Survey of Deck Surface and Roadway Profile	16
2. Prepare Plan and Profile of Bridge	<u>16</u>
Total Task 2	32

TASK 3

Bridge Inspection

1. Field Inspect Bridge	20
2. Prepare Bridge Inspection Reports	<u>20</u>
Total Task 3	40

#### TASK 4

##### Bridge Repair Analysis

1. Perform a study including costs outlining suggested bridge repairs	120
2. Perform a study including costs of deck overlay alternatives	<u>40</u>
Total Task 4	160

#### TASK 5

##### Project Report

1. Prepare modified project report in accordance with LCDOT Requirements	40
2. Local Coordination Summary	4
3. Produce Exhibits	8
4. Assemble and Submit the Report	4
5. Report Revisions per Review Comments	<u>8</u>
Total Task 5	64

#### TASK 6

##### Plans, Specifications, Estimate of Cost

1. Prepare Plans	80
2. Prepare Specifications	40
3. Prepare Quantities	16
4. Prepare Estimate of Cost	<u>8</u>
Total Task 6	152

### TASK 7

#### Review Agency Coordination

1. Review Agency Coordination (Local, IDOT, Tollway)	16
2. Coordination with Utility Companies	<u>8</u>
Total Task 7	24

### TASK 8

#### Project Management and Administration

Total Task 8	8
Total Manhours	<u>520</u>

# Exhibit A Preliminary Engineering

Route:

Local Agency: LAKE  
(Municipality/Township/County)  
Section: 08-00198-06-BR  
Project: 14th Street Bridge Over Route 41  
Job No.:

\*Firm's approved rates on file with  
IDOT's Bureau of Accounting and  
Auditing:

Payroll Burden & Fringe Rate  
Overhead & Expense Rate  
Complexity Factor

93.16%  
95.98%  
0.036

## Cost Estimate of Consultant's Services in Dollars

Element of Work	Employee Classification	Man-Hours	Pay-Roll Rate	Pay-Roll Costs	Payroll Burden & Fringe Costs	Overhead and Expenses*	Profit	Total
Surveys, Plans, Specifications, Estimate								
DATA COLLECTION, COMPILATION, REVIEW AND EVALUATION	STRUCTURAL ENG.	20	45.00	\$900.00	\$838.44	\$863.82	\$390.34	\$2,992.60
	ASST. ST. ENG.	20	35.00	\$700.00	\$652.12	\$671.86	\$303.60	\$2,327.58
SURVEYS	CREW CHIEF	8	30.00	\$240.00	\$223.58	\$230.35	\$104.09	\$798.02
	RODMAN	8	25.00	\$200.00	\$186.32	\$191.96	\$86.74	\$665.02
	CAD TECH.	16	20.00	\$320.00	\$298.11	\$307.14	\$138.79	\$1,064.04
BRIDGE INSPECTION/	STRUCTURAL ENG.	40	45.00	\$1,800.00	\$1,676.88	\$1,727.64	\$780.68	\$5,985.20
BRIDGE REPAIR ANALYSIS	ASST. ST. ENG.	60	35.00	\$2,100.00	\$1,956.36	\$2,015.58	\$910.79	\$6,982.73
PROJECT REPORT	STRUCTURAL ENG.	8	45.00	\$360.00	\$335.38	\$345.53	\$156.14	\$1,197.05
	ASST. ST. ENG.	24	35.00	\$840.00	\$782.54	\$806.23	\$364.32	\$2,793.09
	CAD TECH.	24	20.00	\$480.00	\$447.17	\$460.70	\$208.18	\$1,596.05
	ADMINISTRATIVE	8	25.00	\$200.00	\$186.32	\$191.96	\$86.74	\$665.02
PLANS, SPECS., ESTIMATE OF COST	STRUCTURAL ENG.	8	45.00	\$360.00	\$335.38	\$345.53	\$156.14	\$1,197.05
	ASST. ST. ENG.	40	35.00	\$1,400.00	\$1,304.24	\$1,343.72	\$607.19	\$4,655.15
	CAD TECH.	40	20.00	\$800.00	\$745.28	\$767.84	\$346.97	\$2,660.09
	ADMINISTRATIVE	8	25.00	\$200.00	\$186.32	\$191.96	\$86.74	\$665.02
REVIEW AGENCY COORDINATION	STRUCTURAL ENG.	8	45.00	\$360.00	\$335.38	\$345.53	\$156.14	\$1,197.05
	ASST. ST. ENG.	16	35.00	\$560.00	\$521.70	\$537.49	\$242.88	\$1,862.07
PROJECT MANAGEMENT AND ADMINISTRATION	PRINCIPAL	8	50.00	\$400.00	\$372.64	\$383.92	\$173.48	\$1,330.04
Totals		364		\$12,220.00	\$11,384.15	\$11,728.76	\$5,299.95	\$40,632.87

BLR 4351 (Rev. 11/89)  
(Sheet 8 of 8)

LAKE COUNTY  
DIVISION OF TRANSPORTATION  
14<sup>th</sup> STREET BRIDGE OVER ROUTE 41  
MANHOURS PROJECTIONS

PRELIMINARY ENGINEERING

TASK 1

Data Collection, Compilation, Review and Evaluation

1. Data Collection	8
2. Compilation	8
3. Initial Field Inspection with Compilation Data	16
4. Meetings with Lake County Division of Transportation	<u>8</u>
Total Task 1	40

TASK 2

Surveys

1. Topographic Survey of Deck Surface and Roadway Profile	16
2. Prepare Plan and Profile of Bridge	<u>16</u>
Total Task 2	32

TASK 3

Bridge Inspection

1. Field Inspect Bridge	20
2. Prepare Bridge Inspection Reports	<u>20</u>
Total Task 3	40

#### TASK 4

##### Bridge Repair Analysis

1. Perform a study including costs outlining suggested bridge repairs	20
2. Perform a study including costs of deck overlay alternatives	<u>40</u>
Total Task 4	60

#### TASK 5

##### Project Report

1. Prepare modified project report in accordance with LCDOT Requirements	40
2. Local Coordination Summary	4
3. Produce Exhibits	8
4. Assemble and Submit the Report	4
5. Report Revisions per Review Comments	<u>8</u>
Total Task 5	64

#### TASK 6

##### Plans, Specifications, Estimate of Cost

1. Prepare Plans	40
2. Prepare Specifications	32
3. Prepare Quantities	16
4. Prepare Estimate of Cost	<u>8</u>
Total Task 6	96

## TASK 7

### Review Agency Coordination

- |  |          |
|--|----------|
| 1. Review Agency Coordination (Local, IDOT, Tollway) | 16       |
| 2. Coordination with Utility Companies               | <u>8</u> |

Total Task 7	24
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## TASK 8

### Project Management and Administration

Total Task 8	8
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Total Manhours	<u>364</u>
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